

Volume and Surface Area of Cylinders

~ 1 ~

1. What is the lateral area of a right cylinder with a radius of 4 in. and a height of 9 in.?

- A. 104π in.² B. 88π in.²
C. 72π in.² D. 32π in.²

2. What is the volume of a right cylinder with a diameter of 8 cm and a height of 12 cm?

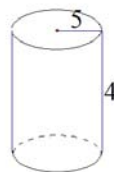
- A. 768π cm³ B. 192π cm³
C. 96π cm³ D. 48π cm³

3. Find the surface area of a right cylinder when the radius is 7 ft and the height is 15 ft. Round your result to two decimal places. (Use $\pi \approx 3.14$)

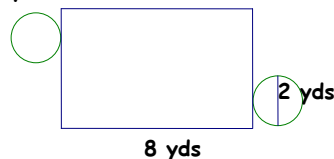
4. If the lateral area of a right cylinder is 32π m² and the height is 16 m, then what is the radius of this cylinder?

5. The surface area of a right cylinder is 452.4 mm² and its radius is 4 mm, what is its height? (Round the result to the nearest tenths place. Use $\pi \approx 3.14$)

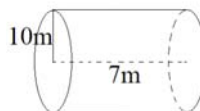
6. What is the surface area of the right cylinder? (Give the exact value)



7. Find the surface area of the following right cylinder. (Give the exact value)



8. Find the lateral area of the right cylinder. (Give the exact value.)



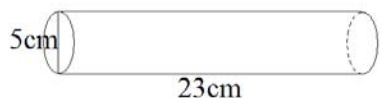
9. What is the volume of the right cylinder? (Approximate the answer to one decimal place. Use $\pi \approx 3.14$)

10. If the diameter of a right cylinder is 1 in. and the height is 8 in. then what is the volume of the cylinder? (Give the exact value)

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~ 2 ~

11. What is the volume of the right cylinder?
(Give the exact value)



15. Molly is wrapping gifts for her brother's birthday. The gifts are in the shape of right cylinders with radii of 3 in. and heights of 18 in. She has a total of 6 gifts for her brother. (Round to two decimal places. Use $\pi \approx 3.14$)

12. If the volume of a right cylinder is 99π m^3 and its radius is 3 m, then what is the surface area of the cylinder? (Give the exact value)

13. The lateral area of a right cylinder is 24π km^2 and its height is 3 km, what is the volume of this cylinder?

14. What is the volume of the cylinder?
(Give the exact value)

